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## Fig. 1A

DNA: acgcgggggcggttaacacttggtttttgcttccacttcatggagttccctg 51  
----1----1----1----1----1----1----1----1----1----1--

DNA: aaaccaataacaaccctatcatcactctctctttcttattatgcatgcttt 102  
---1---1---1---1---1---1---1---1---1---1---1---

DNA: ccctagcttatgcttccgaaacctgtgattttccagcaatctttaacttcg 153  
--1----1----1----1----1----1----1----1----1----1---

DNA: gcgactccaattccgataccggtggcaaggcagctgccttttatcctctta 204  
-1----1----1----1----1----1----1----1----1----1----

DNA: accctccttatggagagactttctttcacaggctcgacaggaagggtactctg 255  
1----1----1----1----1----1----1----1----1----1---

DNA: atggaaggctcataatagattttatcgccgagagtttcaatctcccatatc 306  
----1----1----1----1----1----1----1----1----1----1--

DNA: tgagtccatatcttagttccctgggaagcaacttcaaacatggtgcagatt 357  
---1---1---1---1---1---1---1---1---1---1---1---

DNA: ttgccacagcaggatccaccattaaactaccaactactattatacctgctc 408  
--1----1----1----1----1----1----1----1----1----1---

DNA: atggtggatttagtccattctaccttgatgtccaatattcgcaattccggc 459  
-1----1----1----1----1----1----1----1----1----1----

DNA: aattcataccagatcacagtttatcagggaaactggaggcatatttgctg 510  
1----1----1----1----1----1----1----1----1----1---

DNA: aattggtgcccaggaatattattttgagaaagctttatacacattcgata 561  
----1----1----1----1----1----1----1----1----1----1--

DNA: ttggtcaaaatgatcttacagaaggattcttgaacttaactgtggaagaag 612  
---1---1---1---1---1---1---1---1---1---1---1---

DNA: tgaatgcaactgtccctgatcttgtaatagcttctcagcaaactgtaaga 663  
--1----1----1----1----1----1----1----1----1----1---

DNA: aaatatacgatttgggagctagaacattttggattcacaacacaggaccaa 714  
-1----1----1----1----1----1----1----1----1----1----

DNA: ttggttgctctttcattcattttaacgtattttccctgggcagaaaaggata 765  
1----1----1----1----1----1----1----1----1----1---

DNA: gtgcaggctgtgcaaaagcttacaatgaagttgctcagcattttaatcaca 816  
----1----1----1----1----1----1----1----1----1----1--

DNA: agttgaaggagatcggttgctcaactcaggaaggatttgcttttagctacat 867

---1---1---1---1---1---1---1---1---1---1---1--  
DNA: tcgtccacggttgacatctattctgtcaagtattctttattcagtgagccag 918  
--1---1---1---1---1---1---1---1---1---1---1---  
DNA: aaaaacacggtttcgagtttccacttataacatggttggtggtacggaggaa 969  
-1---1---1---1---1---1---1---1---1---1---1---  
DNA: agtacaatttttagtggttactgctccatgtggagatacagttacagcagacg 1020  
1---1---1---1---1---1---1---1---1---1---1---1  
DNA: acggtaccaaaatagttgtgggttcattgtgcttgcccttcagttcgagtaa 1071  
----1---1---1---1---1---1---1---1---1---1---1---  
DNA: attgggatggagctcactacactgaagctgccaatgaatatTTTTTcgacc 1122  
---1---1---1---1---1---1---1---1---1---1---1---  
DNA: agatttctacaggagccttctctgatccccctgttccattgaatatggcat 1173  
--1---1---1---1---1---1---1---1---1---1---1---  
DNA: gtcataaaaactgaatcattgaggacattagcctctgtatagggttatatgaa 1224  
-1---1---1---1---1---1---1---1---1---1---1---  
DNA: agtgctttgctgaaagcccgctaataaaaatgaggaataataaatgaga 1275  
1---1---1---1---1---1---1---1---1---1---1---1  
DNA: aaccattgattatggttaggattcacttggtttctatcataataatctatct 1326  
----1---1---1---1---1---1---1---1---1---1---1---  
DNA: gttgtatatacaacagttgtatgaaatagtttcttgtaataaagacttgtc 1377  
---1---1---1---1---1---1---1---1---1---1---1---  
DNA: tttctccggtttcccta 1394  
--1---1---1---1---

Fig. 1B

```

AGALTLGFCFHFMEFPETNNNPIITLSFLLCMLSLAYASETCDFPAIFNF
----1----1----1----1----1----1----1----1----1----1  50

GDSNSDTGGKAAAFYPLNPPYGETFFHRSTGRYSDGRLLIIDFIAESFNLP
----1----1----1----1----1----1----1----1----1----1  100

YLSPYLSSLGSNFKHGADFATAGSTIKLPTTIIPAHGGFSPFYLDVQYSQ
----1----1----1----1----1----1----1----1----1----1  150

FRQFIPRSQFIRETGGIFAELVPEEYYFEKALYTFDIGQNDLTEGFLNLT
----1----1----1----1----1----1----1----1----1----1  200

VEEVNATVPDLVNSFSANVKKIYDLGARTFWIHNTGPIGCLSFIITYFPW
----1----1----1----1----1----1----1----1----1----1  250

AEKDSAGCAKAYNEVAQHFNHKLKEIVAQLRKDLPLATFVHVDIYSVKYS
----1----1----1----1----1----1----1----1----1----1  300

LFSEPEKHGFEPFLITCCGYGGKYNFSVTAPCGDTVTADDGTKIVVGSCA
----1----1----1----1----1----1----1----1----1----1  350

CPSVRVNWDGAHYTEAANEYFFDQISTGAFSDPPVPLNMACHKTESLRTL
----1----1----1----1----1----1----1----1----1----1  400

ASV*VI*KCFAESPLIK*GIIINEKPLIMLGFTWFLS**SICCIYNSCMK
----1----1----1----1----1----1----1----1----1----1  450

*FLVIKTCLSPVSL
----1----1----1  464

```

Fig. 2

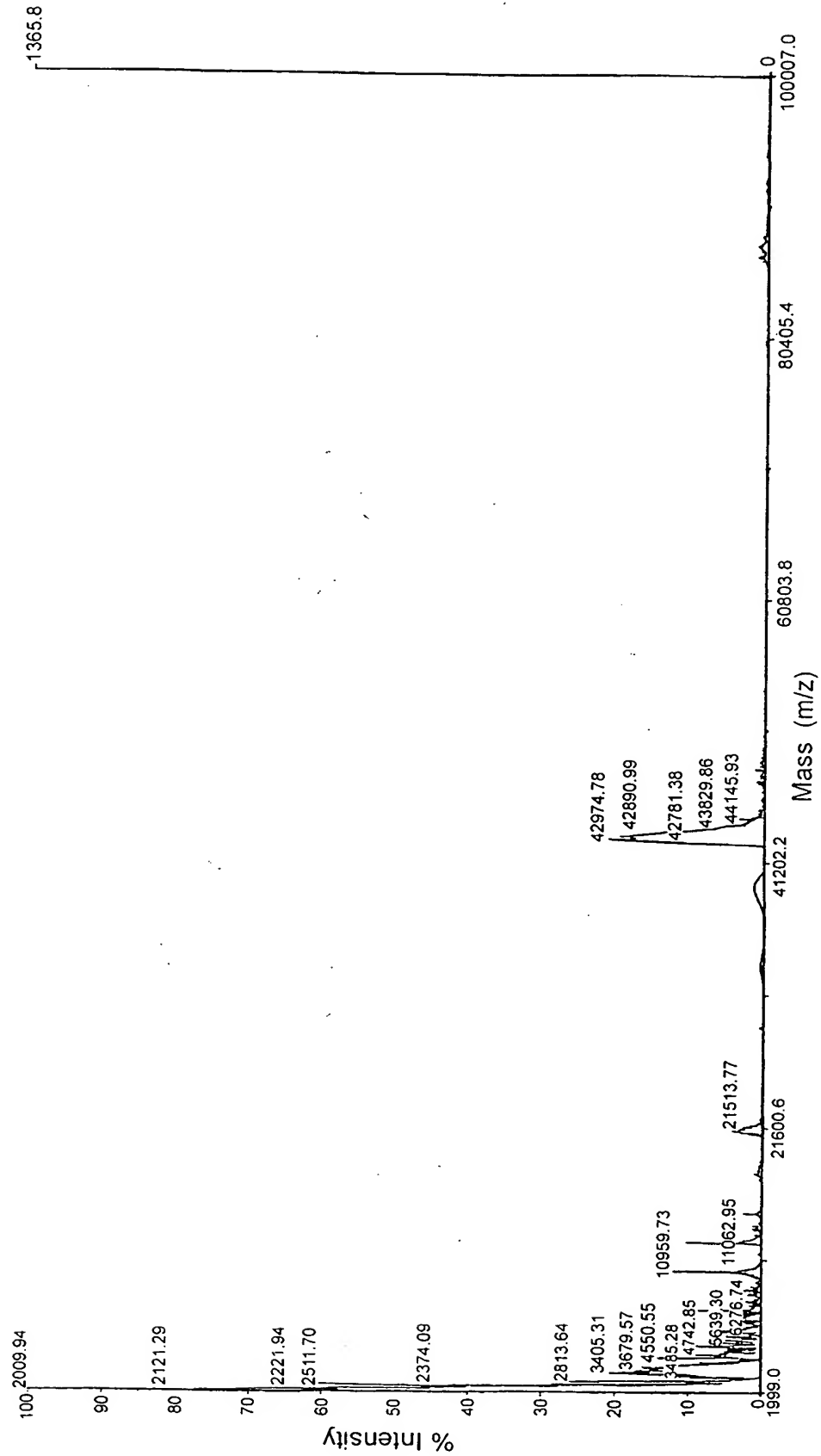


Fig.3

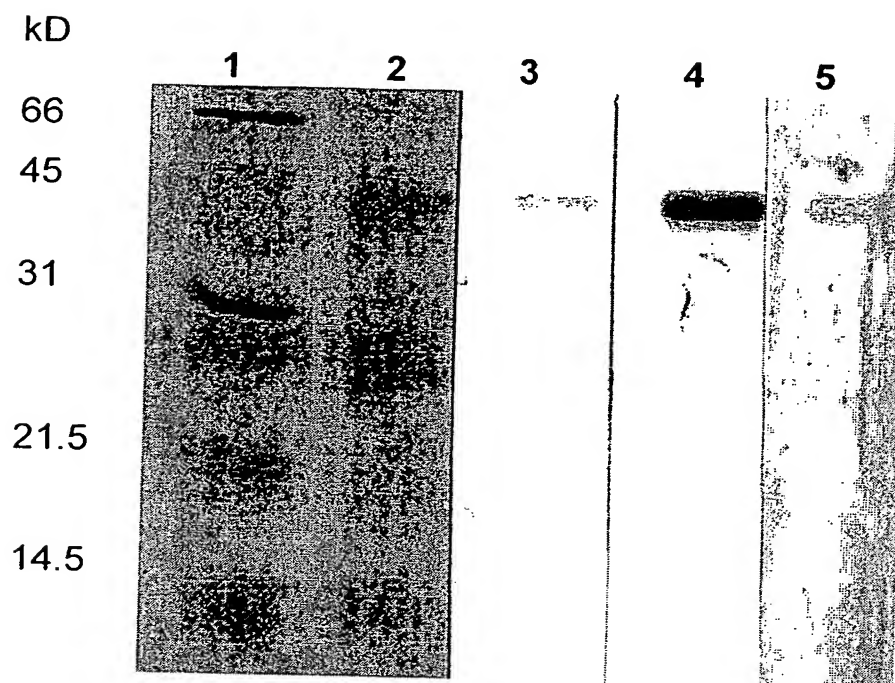


Fig. 4

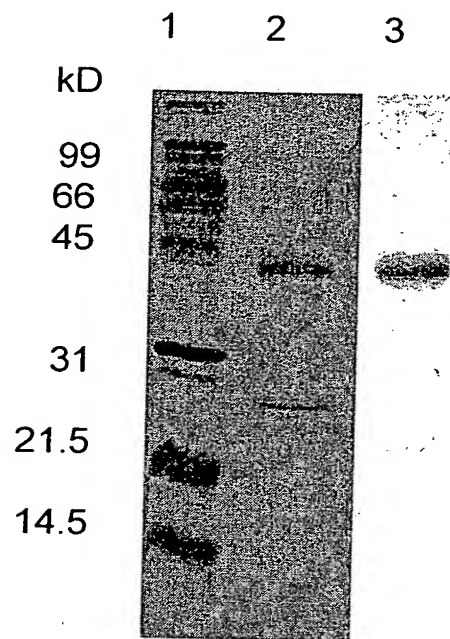


Fig. 5

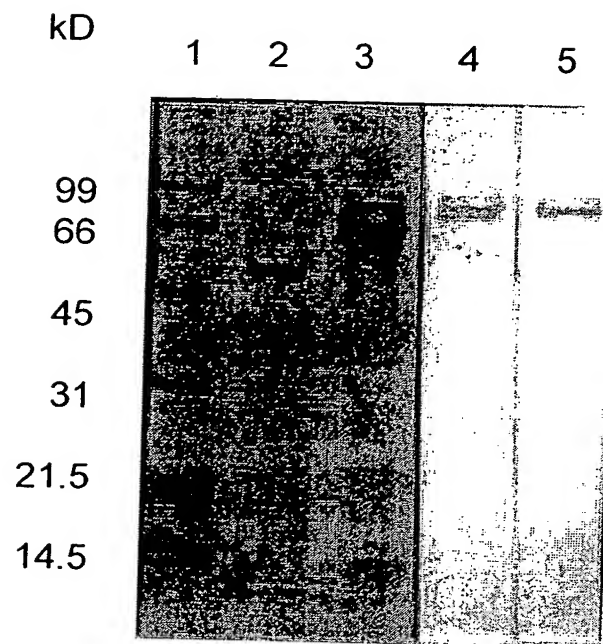


Fig. 6